WHAT IS CLAIMED IS:

1. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means for cooling the organic electroluminescence element.

2. The image forming apparatus according to Claim 1, wherein the cooling means comprises at least one of a Peltiert element, a fan and a fin.

3. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means constituted by a fan for cooling the organic electroluminescence element;

wherein the fan is attached at a position capable of blowing a wind in a direction substantially orthogonal to a longitudinal direction of the exposing means.

4. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means comprising a Peltiert element for cooling the organic electroluminescence element;

wherein the cooling means cools any of faces excluding at least a luminescent face of the organic electroluminescence element.

5. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

a cooling medium pipe for transporting a cooling medium for cooling the organic electroluminescence element along a vicinity of the organic electroluminescence element.

6. The image forming apparatus according to Claim 1, further comprising:

a temperature sensor for detecting a temperature of the exposing means; and

controlling means for operating the cooling means when the temperature of the exposing means detected by the temperature sensor becomes out of a predetermined temperature.

7. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means for cooling the organic electroluminescence element;

a temperature sensor for detecting a temperature of the exposure head; and

controlling means for operating the cooling means when a temperature of the exposure head detected by the temperature sensor becomes out of a predetermined temperature;

wherein the controlling means controls the cooling means to cool the exposing means to an environmental temperature in a steady state equal to or lower than a crystallizing temperature of an organic substance provided by the organic electroluminescence element.

8. An image forming apparatus comprising:

exposing means including an organic electroluminescence

element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means including at least one of a Peltiert element, a fan and a fin for cooling the organic electroluminescence element;

a temperature sensor for detecting a temperature of the exposing means; and

controlling means for operating the cooling means when the temperature of the exposing means detected by the temperature sensor becomes out of a predetermined temperature.

9. The image forming apparatus according to Claim 8, wherein the controlling means controls the cooling means to cool the exposing means to an environmental temperature in a steady state equal to or lower than a crystallizing temperature of an organic substance provided by the organic electroluminescence element.

10. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means for cooling the organic electroluminescence element;

a temperature sensor for detecting a temperature of the exposure head; and

controlling means for operating the cooling means when the temperature of the exposing means detected by the temperature sensor becomes out of a predetermined temperature;

wherein the controlling means sets a width of varying the temperature of the exposing means to an environmental temperature ±20°C in a steady state.

11. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means for cooling the organic electroluminescence element;

a light amount sensor for detecting a light amount of light irradiated from the organic electroluminescence element; and

controlling means for operating the cooling means when the light amount of the light detected by the light amount sensor becomes equal to or smaller than a predetermined amount.

12. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means for cooling the organic electroluminescence element;

a darkness sensor for detecting a darkness of the toner image; and

controlling means for operating the cooling means when the darkness of the toner image detected by the darkness sensor becomes equal to or smaller than a predetermined darkness.

13. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means for cooling the organic electroluminescence element;

a temperature sensor for detecting a temperature of the exposing means;

a light amount sensor for detecting a light amount of light irradiated from the organic electroluminescence element;

a darkness sensor for detecting a darkness of the toner image; and

controlling means for operating the cooling means based on an output of the temperature sensor or the light amount sensor or the darkness sensor;

wherein the controlling means controls a current supplied to the organic electroluminescence element such that a luminescent light amount of the organic electroluminescence element become constant based on information from the temperature sensor, the light amount sensor or the darkness sensor.

14. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means for cooling the organic electroluminescence element; and

controlling means for controlling the cooling means for uniformly controlling a temperature of inside of a head such that a difference in a light amount of each pixel at the inside of the head of the exposing means becomes equal to or smaller than ±14%.

15. An image forming apparatus comprising:

exposing means including an organic electroluminescence member having a plurality of pieces of luminescent units between a pair of an anode and a cathode opposed to each other;

wherein the luminescent unit constituting the organic electroluminescence element is constituted by combining a unit in which a light amount of each luminescent unit is increased relative to a temperature and a unit in which the light amount of the luminescent unit is reduced relative to the temperature.

16. The image forming apparatus according to Claim 15, further comprising cooling means for cooling the organic electroluminescence element constituting the exposing means.

17. The image forming apparatus according to Claim 15, further comprising:

cooling means for cooling the organic electroluminescence element;

a temperature sensor for detecting a temperature of the exposure head; and

controlling means for operating the cooling means when the temperature of the exposing means detected by the temperature sensor becomes out of a predetermined temperature.

18. An image forming apparatus comprising:

exposing means including an organic electroluminescence element having an anode for injecting a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board; and

cooling means arranged with a heat radiating sheet for cooling the organic electroluminescence element constituting the exposing means.

19. The image forming apparatus according to Claim 18, wherein the cooling means cools any of faces excluding at least a luminescent face of the organic electroluminescence element constituting the exposing means.

20. An image forming apparatus comprising:

exposing means including an electroluminescence element including at least an anode for injection a hole, a luminescent layer having a luminescent region and a cathode for injecting an electron on a board;

wherein the organic electroluminescence element is cooled by using cooling means constituting a medium by a liquid.